Technical sheet :

EMA II 20 HD-2



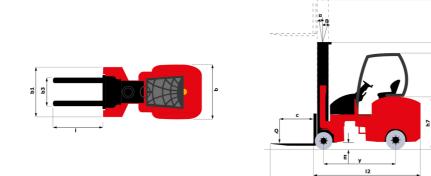


| ted on June 17. | 2025 at 9:14 PM UT | С |
|-----------------|--------------------|------------------------------------|
| | ted on June 17 | ted on June 17, 2025 at 9:14 PM UT |

| | | EMA II 20 II D-2 |
|-------|---|------------------|
| | Technical characteristics | |
| 1.1 | Manufacturer | |
| 1.2 | Model Name | |
| 1.3 | Power source | |
| 1.4 | Operator type | |
| 1.5 | Max. capacity | Q |
| 1.6 | Load center of gravity | С |
| 1.8 | Load distance, centre of drive axle to fork | х |
| 1.9 | Wheelbase | у |
| | Weight | |
| 2.1 | Service weight | |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | |
| | Wheels | |
| 3.1 | Tires type | |
| 3.2 | Dimensions of front wheels | |
| 3.3 | Dimensions of rear wheels | |
| 3.5 | Number of front wheels / rear wheels | |
| 3.5.2 | Number of drive wheels | |
| 3.6 | Front wheel gauge | b10 |
| 3.7 | Rear wheel gauge | b11 |
| | Dimensions | |
| 4.7 | Height of overhead guard (cabin) | h6 |
| 4.8 | Seat height/stand height | h7 |
| 4.19 | Overall length | 11 |
| 4.20 | Length to face of forks | 12 |
| 4.21 | Overall width | b1 |
| 4.22 | Forks section / width / length | s / e / l |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | |
| 4.24 | Fork carriage width | b3 |
| 4.31 | Ground clearance below mast | m1 |
| 4.32 | Ground clearance at centre of wheelbase | m2 |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast |
| | Performances | |
| 5.1 | Travel speed (laden / unladen) | |
| 5.2 | Lifting speed (laden / unladen) | |
| 5.3 | Lowering speed (laden / unladen) | |
| 5.7 | Gradeability (laden / unladen) | |
| 5.10 | Service brake | |
| | Engine | |
| 6.1 | Drive motor rating S2 60 min | |
| 6.2 | Lift motor rating at S3 15% | |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | |
| 6.4 | Battery voltage / capacity | |
| 6.5 | Battery weight (+/- 5%) | |
| | Miscellaneous | |
| 8.1 | Type of drive control | |
| 8.2 | Working hydraulic pressure for attachments | |
| 8.3 | Oil flow rate for attachments | |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | |
| | | |

| Metric | | | | | | |
|----------------------------|--|--|--|--|--|--|
| Manitou | | | | | | |
| EMA II 20 HD-2 | | | | | | |
| Electrical | | | | | | |
| Seated | | | | | | |
| 2000 kg | | | | | | |
| 500 mm | | | | | | |
| 278 mm | | | | | | |
| 1745 mm | | | | | | |
| | | | | | | |
| 8700 kg | | | | | | |
| 6330 kg / 4080 kg | | | | | | |
| 3480 kg / 5220 kg | | | | | | |
| | | | | | | |
| Solid tires | | | | | | |
| 412 x 178 | | | | | | |
| 457 x 178 | | | | | | |
| 2/2 | | | | | | |
| 2 | | | | | | |
| 1110 mm | | | | | | |
| 1370 mm | | | | | | |
| 1370 mm | | | | | | |
| 2260 mm | | | | | | |
| 1200 mm | | | | | | |
| 3710 mm | | | | | | |
| 2560 mm | | | | | | |
| 1350 mm | | | | | | |
| 40 mm x 125 mm x 1150 mm | | | | | | |
| 2 | | | | | | |
| 860 mm | | | | | | |
| 50 mm | | | | | | |
| 130 mm | | | | | | |
| 2000 mm | | | | | | |
| 2200 mm | | | | | | |
| | | | | | | |
| 8.50 km/h-9 km/h | | | | | | |
| 0.35 m/s-0.45 m/s | | | | | | |
| 0.40 m/s-0.36 m/s | | | | | | |
| 6 % / 8 % | | | | | | |
| Hydraulic | | | | | | |
| | | | | | | |
| 10 kW | | | | | | |
| 9 kW | | | | | | |
| DIN 43595 | | | | | | |
| 48 V / 930 Ah | | | | | | |
| 1300 kg | | | | | | |
| | | | | | | |
| Mosfet AC speed controller | | | | | | |
| 200 bar | | | | | | |
| 25 l/min | | | | | | |
| < 73 dB | | | | | | |
| 73 dB | | | | | | |
| | | | | | | |

EMA II 20 HD-2 - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 55 | FLT 60 | FLT 66 | FLT 76 | FLT 80 | FLT 86 | FLT 90 | FLT 100 | FLT 106 |
|--|----|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| α - Mast/fork carriage tilt, forward | ۰ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| β - Mast/fork carriage tilt, backward | ۰ | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| h1 - Mast lowered height | mm | 2750 | 2900 | 3150 | 3590 | 3720 | 4020 | 4150 | 4590 | 4820 |
| h2 - Mast free lift | mm | 1930 | 2080 | 2330 | 2770 | 2900 | 3200 | 3330 | 3770 | 4000 |
| h3 - Mast lifting height | mm | 5500 | 6000 | 6600 | 7620 | 8010 | 8610 | 9000 | 10020 | 10560 |
| h4 - Mast extended height | mm | 3680 | 6830 | 7430 | 8450 | 8840 | 9440 | 9830 | 11000 | 11540 |
| Residual capacity with integrated side shift at max heigth | kg | 1500 | 1500 | 1450 | 1400 | 1350 | 1300 | 1250 | 1000 | 850 |



Head Office B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes